PCT/USOD/40039

PCT

· REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only		
International Application No.	00/40039	
	00 (16.03.00)	

PCT INTERNATIONAL APPLICATION ROLLS

Name of receiving Office and "PCT International Application

	Applicant's or agent's file reference (if desired) (12 characters maximum) 14737.737.02				
Box No. 1 TITLE OF INVENTION					
SENSOR DESIGN AND PROCESS					
Box No. II APPLICANT					
Name and address: (Family name followed by given name; for a designation. The address must include postal code and name of cate address indicated in this Box is the applicant's State (that is, country of residence is indicated below.)	legal entity, full official amby. The country of th				
INPUT/OUTPUT, INC.	Telephone No.				
12300 Charles E. Selecman Drive	281-933-3339				
Suite 200	Facsimile No. 281_552_3157				
Stafford, Texas 77477	281-552-3157				
United States of America	Teleprinter No.				
State (that is, country) of nationality:	State (that is, country) of residence:				
US	US				
This person is applicant all designated all designate for the purposes of:	d States except the United States the States indicated in the Supplemental Box				
Box No. III FURTHER APPLICANT(S) AND/OR (FURT	HER) INVENTOR(S)				
Name and address: (Family name followed by given name: for a designation. The address must include postal code and name of cou address indicated in this Box is the applicant's State (that is, country of residence is indicated below.)	legal entity, full official arthy. The country of the this person is: This person is: applicant only				
SELVAKUMAR, Arjun					
4436 Jim West	applicant and inventor				
Bellaire, Texas 77401	inventor only If this check-box				
United States of America	is marked, do not fill in below.)				
State that is assumed of antionality	T Control of the Control of Contr				
State (that is, country) of nationality: IN	State (that is, country) of residence:				
for the purposes of: States the United St	d States except the United States the States indicated in the Supplemental Box				
Further applicants and/or (further) inventors are indicated o	n a continuation sheet.				
Box No. IV AGENT OR COMMON REPRESENTATIVE	Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE				
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:					
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)					
McCOMBs, David L.: KICE, Warren B.: BECK	ER, Jeffrey M.; 713-547-2000				
BELL, James R.; BUSH, Michael S.; COLSO, DAVIS, JR., Michael A.; DeLEON, Ruben C.;					
IRANI, Rita M.; BALCONI-LAMICA, Michael; M					
O'DELL, David M.; SARFATIS, Brandi W.; SIMMONS, David O.; Teleprinter No.					
Haynes and Boone, LLP, 1000 Louisiana St., Ste 4300,					
Houston, Texas 77002, UNITED STATES OF AMERICA					
Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the					

space above is used instead to indicate a special address to which correspondence should be sent.

Form PCT/RO/101 (first sheet) (July 1998; reprint January 2000)

See Notes to the request form

PCT/USOO/40039

Sheet No U.Z					
Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)					
If none of the following sub-boxes is used, this sheet should not be included in the request.					
Name and address: (Family name followed by given name; for a designation. The address must include postal code and name of country of residence is indicated below.) GOLDBERG, Howard D. 3007 Colony Crossing Sugar Land, Texas 77479 United States of America	egal entity, full official noty. The country of the lof residence if no State This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)				
State (that is, country) of nationality: US State (that is, country) of residence: US US					
This person is applicant for the purposes of: all designated the United States all designated the United States	es of America of America only the Supplemental Box				
Name and address: Family name followed by given name; for a ledesignation. The address must include postal code and name of coun address indicated in this Box is the applicant's State (that is, country) of residence is indicated below.) YU, Duli 15700 Lexington Boulevard, #1301 Sugar Land, Texas 77478 United States of America	gal entity, full official by. The country of the of residence if no State This person is: applicant only spelicant and inventor inventor only (If this check-box is marked, do not fill in below.)				
State (that is, country) of nationality:	State (that is, country) of residence:				
This person is applicant all designated all designated for the purposes of:					
Name and address: (Family name followed by given name; for a les designation. The address must include postal code and name of count address indicated in this Box is the applicant's State (that is, country) of residence is indicated below.) IP, Matthew Austin, Texas United States of America	This person is: This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)				
State (that is, country) of nationality:	State (that is, country) of residence:				
This person is applicant all designated all designated for the purposes of: States all designated States	ates except ates except of America only the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name; for a leg designation. The address must include postal code and name of count address indicated in this Box is the applicant's State (that is, country) of residence is indicated below.) SCHMIDT, Martin A. 78 Ashley Place Reading, Massachusetts 01867 United States of America	al entity, full official y. The country of the fresidence if no State This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)				
State (that is, country) of nationality: US State (that is, country) of residence: US					
This person is applicant all designated all designated States all designated States	ates except the United States the States indicated in				
Further applicants and/or (further) inventors are indicated on another continuation sheet.					

PCT/USOO/4-DO39 Sheet No. Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) If none of the following sub-boxes is used, this sheet should not be included in the request. Name and address: [Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only MARSH, James L. 3305 Shimmering Dawn applicant and inventor San Antonio, Texas 78253 United States of America inventor only (If this check-box is marked, do not fill in below.) State (that is, country) of nationality: State (that is, country) of residence: US This person is applicant for the purposes of: all designated States the United States of America only all designated States except the United States of America the States indicated in the Supplemental Box Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only FUNG, Bing-Fai applicant and inventor Austin, Texas United States of America inventor only (If this check box is marked, do not fill in below.) State (that is, country) of nationality: State (that is, country) of residence: US This person is applicant all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box for the purposes of: Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only SIMON, Philip Houston, Texas applicant and inventor United States of America inventor only (If this check-box is marked, do not fill in below.) State (that is, country) of nationality: State (that is, country) of residence: US TIS This person is applicant all designated States all designated States except the United States of America the United States of America only the States indicated in for the purposes of: the Supplemental Box Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address findicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) State (that is, country) of nationality: State (that is, country) of residence: This person is applicant for the purposes of: all designated States all designated States except the United States of America the States indicated in the Supplemental Box the United States of America only

Form PCT/RO/101 (continuation sheet) (July 1998; reprint January 2000)

Further applicants and/or (further) inventors are indicated on another continuation sheet

See Notes to the request form

PETZUSOOZ40039

Sheet No. 04

Box	Box No.V DESIGNATION OF STATES					
The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):						
	Regional Patent					
×	AP ARIPO Patent: GHGhana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harard Protocol and of the PCT					
⊠)	EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Paten Convention and of the PCT					
ļ	EP European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT					
I XXI	OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT(if other kind of protection or treatment desired, specify on dotted line)					
Nat	ion	al Patent (if other kind of protection or treatment desired, sp	ecifv	an do	tted line)	
		United Arab Emirates				
		Albania	_		Liberia	
		Armenia			Lesotho	
		Austria	_		Lithuania	
		Australia			Luxembourg	
		Azerbaijan	_		Latvia	
		Bosnia and Herzegovina			Morocco	
		Barbados			Republic of Moldova	
_		Bulgaria		MG	Madagascar	
		Brazil		MK	The former Yugoslav Republic of Macedonia	
		Belarus	153		***************************************	
		Canada			Mongolia	
		and LI Switzerland and Liechtenstein			Malawi	
		China			Mexico	
N d	CR	Costa Rica			Norway	
		Cuba			New Zealand	
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		Denmark			Romania	
		Dominica			Russian Federation	
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		Finland	=	SG	Singapore	
		United Kingdom			Slovenia	
		Grenada	=	SK	Slovakia	
_		Georgia	=	SL	Sierra Leone	
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		Gambia	=	TM	Turkmenistan	
		Croatia	=	TR	Turkey	
		Hungary	=	TT T7	Trinidad and Tobago	
		Indonesia			United Republic of Tanzania Ukraine	
Δi		Israel				
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		Kenya	=		Viet Nam	
		Kyrgyzstan	=	-	Yugoslavia	
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	_		Ψ.		Zimbabwe	
Ø k	(R	Republic of Korea	Ch	 eck-b	Oxes reserved for designating States which have	
_		Kazakhstan	bec	ome t	oxes reserved for designating States which have larty to the PCT after issuance of this sheet:	
_		Saint Lucia				
_		Sri Lanka	$\bar{\Box}$			
-				g mad		
from desig	nati the nati	Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn bythe applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.				

PCT/USDO/40039

Sheet No. . 05 . . .

Box No. VI PRIORI	TÝ CLAIM		Further pri	ority claims are indicated	in the Supplemental Box		
Filing date		Number		Where earlier applicat			
of carlier application (day/month/year)		arlier application	national application: country	regional application:* regional Office	international application receiving Office		
item (1) 17 Mar 19 (17.03.99)		.25,076	US				
item (2)							
item (3)							
of the earlier applies purposes of the press Where the earlier applicat Convention for the Protection	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office) identified above as item(s): * Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(6)fij). See Supplemental Box.						
		EARCHING AU					
Choice of International S (if two or more Internation competent to carry out the the Authority chosen; the two-	al Searching A international se	uthorities are sec arch, indicate	equest to use results of ea arch has been carried out by or alc (day/month/year)	requested from the internati	to that search/if an earlier ional Searching Authority): Country (or regional Office)		
ISA/US					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Box No. VIII CHECK	LIST; LAN	GUAGE OF FIL	ING	*******			
This international application following number of	tion contains	This internation	nal application is accompan	iled by the item(s) marke	ed below:		
request	: 05	1. Tec calcu	signed power of attorney				
description (excluding sequence listing part)	38 :	3. copy of	general power of attorney,	•	y:		
claims	: 05		nt explaining lack of signatu				
abstract drawings	: 01 · 41	1	document(s) identified in B				
sequence listing part of description	00	7. 🔲 separate	on of international applicati indications concerning dep le and/or amino acid seques	osited microorganism or			
Total number of sheets:	90		ecify): \$2,468 Chec				
Figure of the drawings washould accompany the abs		La	anguage of filing of the	NGLISH	ccs, postcaru		
Box No. IX SIGNATU	JRE OF APP	LICANT OR A	GENT	· ·			
Next to each signature, indicate t	the name of the p	traon signing and the	capacity in which the person signs	((f such capacity is not obviou	us from reading the request).		
Todd Matti	th Palt As	ent		March	2000		
		,		(Date	e)		
				(16,03,00)			
Date of actual receipt of international application	of the purporte		ecciving Office use only —	6 MAR 2000	2. Drawings:		
timely received papers							
4. Date of timely receipt corrections under PCT	of the required				not received:		
5. International Searching (if two or more are com	Authority IS	A/US	6. Transmitta until scarch	of search copy delayed fee is paid.			
Date of receipt of the record copy by the International Bureau use only							
orm PCT/RO/101 (last she		reprint January	2000)	See	Notes to the request form		

PET/USDO/40039

This sheet is not part of and does not count as a sheet of the international application.

	PCT	For receiving	Office use only
FEE	CALCULATION SHEET Annex to the Request	International application No.	00/40039
Applicant's or agent'	14737.737.02	16 MAR 2000 Date stamp of the receiving Office	(16.03.00)
Applicant			
INPUT/OUTPU	T, INC.	·	
CALCULATION O	F PRESCRIBED FEES		
1 TRANSMITTAL	.FEE	240.00	T 240
2. SEARCH FEE .	· · · · · · · · · · · · · · · · · · ·	450.00	S 700
Af two or more las	rch to be earried out by <u>US</u> ternational Searching Authorities are competent in relati the name of the Authority which is chosen to carry out the	on to the international international	
3. INTERNATION	·		
Basic Fee The international	application contains 90 sheets.		
first 30 sheets	427.00	b1	427
60	× 10.00 - 600.00	b2	600
remaining sheets	additional amount		
Add amounts ente	ered at bl and b2 and enter total at B	1,027.00 B	1027
Designation Fee: The international	s application contains <u>all</u> designations.		736
8	× <u>92.00</u> -	736.00 D	
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international jee. I total to be entered	certain States are entitled to a reduction of 75% Where the applicant is (or all applicants are) so entit at I is 25% of the sum of the amounts entered at B o	ied, the and D.)	
4. FEE FOR PRIOR	ITY DOCUMENT (if applicable)	15.00	P 15
	YABLE	2,468.00 box TOTAL	2718
The designation	fees are not paid at this time.		=
MODE OF PAYME		· · · · · · · · · · · · · · · · · · ·	- j
authorization to deposit account cheque postal money o	charge bank draft cash	coupons other (specify):	
DEPOSIT ACCOUN	IT AUTHORIZATION (this mode of payment n	nay not be available at all receiving (Offices)
The RO/ US	is hereby authorized to charge the total fees		
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1	is hereby authorized to charge the fee for pro Bureau of WIPO to my deposit account.	eparation and transmittal of the priorit	y document to the International
08-1394	March 2000	JOH IVE	5
Deposit Account No.	Date (day/month/year)	Signature Todd Matti	ng/1y, Reg. 40,298

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PATENT COOPERATION TREATY

REC'D	2 4	DEC	2001
WIPO		F	CT

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 10-1012 PCT	FOR FURTHER ACTION	See Notif Preliminary	ication of Transmittal of International Examination Report (Form PCT/IPEA/416)	
International application No.	International filing date (day/n	nonth/year)	Priority date (day/month/year)	
PCT/US00/40039	16 MARCH 2000		17 MARCH 1999	
International Patent Classification (IPC) IPC(7): G01P 15/13, 15/08 and US (C		
Applicant INPUT/OUTPUT, INC.		<u>-</u>		
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.				
2. This REPORT consists of a	total of sheets.		end.	
been amended and are th	panied by ANNEXES, i.e., she to basis for this report and/or sh tion 607 of the Administrative	eets containir	cription, claims and/or drawings which have ag rectifications made before this Authority. under the PCT).	
These annexes consist of a to	otal of sheets.		3 - 积	
3. This report contains indication	ns relating to the following ite	ems:	280 DE	
I X Basis of the repo	rt			
II Priority				
III Non-establishmer	it of report with regard to no	velty, invent	ive step or industrial applicability	
IV Lack of unity of	invention	-	3	
V X Reasoned statemer citations and expla	nt under Article 35(2) with regardations supporting such statement	ard to novelty ent	v, inventive step or industrial applicability;	
VI Certain documents	cited			
VII Certain defects in the	he international application			
VIII Certain observation	s on the international application	on		
•				
Date of submission of the demand	Date	of completion	of this report	
11 OCTOBER 2000	O:	NOVEMBE	R 2001	
Name and mailing address of the IPEA/US Authorized officer			11/2/1/1/	
Commissioner of Patents and Trademarks Box PCT Westigned D. C. 1933				
Washington, D.C. 20231 Facsimile No. (703) 305-3230 Telephone No. (703) 305-4900				
Form PCT/IPEA/409 (cover sheet) (July	,	(1	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/40039

. statement			
Novelty (N)	Claims	none	YE
٠	Claims	1-12	NO
Inventive Step (IS)	Claims	none	YE
	Claims	1-12	NO
Industrial Applicability (IA)	Claims	1-12	YE
	Claims	none	NO
	PCT Article 33(2) as being anticipated by U.S. Patent 5,652,384 (Henrion et strated in Figures 1-4, a mass including a housing having a ca	al.).
assembly; a top cap wafer and a bottom cap v	vafer wherein ea	one or more metal electrode patterns coupled to the spring a ch of the wafer includes a capacitor electrode, a cap balance of the wafer includes a capacitor electrode, a cap balance of the 24 to column 4, line 30; column 5, line 15 to column 6,	nass ietal
assembly; a top cap wafer and a bottom cap v pattern, a cap frame recess, cap bumpers. (54).	vafer wherein ea See, column 3,	ch of the wafer includes a capacitor electrode, a cap balance n	nass netal
assembly; a top cap wafer and a bottom cap watern, a cap frame recess, cap bumpers. (54). Claims 3-5 lack novelty under PCT Article 3 Henrion discloses an accelerometer comprising a cavity, a spring mass assembly; a top cap cap waver in a parallel manner; bonding the	wafer wherein ea See, column 3, 33(2) as being a ng, as illustrated waver; a botton top cap wafer to be bonding proces	ch of the wafer includes a capacitor electrode, a cap balance n line 24 to column 4, line 30; column 5, line 15 to column 6,	nass netal line ving ttom
assembly; a top cap wafer and a bottom cap watern, a cap frame recess, cap bumpers. (54). Claims 3-5 lack novelty under PCT Article 3 Henrion discloses an accelerometer comprisis a cavity, a spring mass assembly; a top cap cap waver in a parallel manner; bonding the cap wafer to another side of the mass suing the (See, column 6, line 14 to column 8, line 49)	wafer wherein ea See, column 3, 33(2) as being an ng, as illustrated waver; a botton top cap wafer to be bonding process 1).	ch of the wafer includes a capacitor electrode, a cap balance in line 24 to column 4, line 30; column 5, line 15 to column 6, inticipated by U.S. Patent 4,922,756 (Henrion). In Figures 5A-10, fabricating a mass including a housing has cap wafer; stacking the mass, the top cap wafer and the bothe a side of the mass using a bonding process; boding the bothese columns.	nass netal line ving ttom ttom
assembly; a top cap wafer and a bottom cap watern, a cap frame recess, cap bumpers. (54). Claims 3-5 lack novelty under PCT Article 3 Henrion discloses an accelerometer comprisis a cavity, a spring mass assembly; a top cap cap waver in a parallel manner; bonding the cap wafer to another side of the mass suing the (See, column 6, line 14 to column 8, line 49)	wafer wherein ea See, column 3, 33(2) as being ann, as illustrated waver; a botton top cap wafer to be bonding process b).	ch of the wafer includes a capacitor electrode, a cap balance in line 24 to column 4, line 30; column 5, line 15 to column 6, inticipated by U.S. Patent 4,922,756 (Henrion). In Figures 5A-10, fabricating a mass including a housing has cap wafer; stacking the mass, the top cap wafer and the bothe a side of the mass using a bonding process; boding the boss; and dicing cuts at predetermined locations on the accelerom	nass netal line ving ttom ttom eter.
assembly; a top cap wafer and a bottom cap watern, a cap frame recess, cap bumpers. (54). Claims 3-5 lack novelty under PCT Article 3 Henrion discloses an accelerometer comprisis a cavity, a spring mass assembly; a top cap cap waver in a parallel manner; bonding the cap wafer to another side of the mass suing the (See, column 6, line 14 to column 8, line 49 Claims 1-12 have industrial applicability und	wafer wherein ea See, column 3, 33(2) as being ann, as illustrated waver; a botton top cap wafer to be bonding process b).	ch of the wafer includes a capacitor electrode, a cap balance in line 24 to column 4, line 30; column 5, line 15 to column 6, inticipated by U.S. Patent 4,922,756 (Henrion). In Figures 5A-10, fabricating a mass including a housing has cap wafer; stacking the mass, the top cap wafer and the bothe a side of the mass using a bonding process; boding the boss; and dicing cuts at predetermined locations on the accelerom	nass netal line ving ttom ttom eter.
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assembly; a top cap wafer and a bottom cap watern, a cap frame recess, cap bumpers. (54). Claims 3-5 lack novelty under PCT Article 3 Henrion discloses an accelerometer comprisis a cavity, a spring mass assembly; a top cap cap waver in a parallel manner; bonding the cap wafer to another side of the mass suing the (See, column 6, line 14 to column 8, line 49 Claims 1-12 have industrial applicability und	wafer wherein ea See, column 3, 33(2) as being ann, as illustrated waver; a botton top cap wafer to be bonding process b).	ch of the wafer includes a capacitor electrode, a cap balance in line 24 to column 4, line 30; column 5, line 15 to column 6, inticipated by U.S. Patent 4,922,756 (Henrion). In Figures 5A-10, fabricating a mass including a housing has cap wafer; stacking the mass, the top cap wafer and the bothe a side of the mass using a bonding process; boding the boss; and dicing cuts at predetermined locations on the accelerom	nass netal line ving ttom ttom eter.



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Supplemental B x (To be used when the space in any of the preceding boxes is not sufficient)				
Continuation of: Boxes I - VIII	Sheet 10			
V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued):				
NEW CITATIONSNONE				
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PATENT COOPERATION TREADOCKETED

From the INTERNATIONAL SEARCHING AUTHORITY	For Date/Time: 9-30-00 Docketedrily: Lev Action: 8 + 10
To: DAVID L. MCCOMBS	Dogbered TV:
HAYNES AND BOONE, LLP	Action: Ost 10
1000 LOUISIANA STREET SUITE 4300	NOTIFICATION OF TRANSMITTAL OF
HOUSTON, TEXAS 77002	THE INTERNATIONAL SEARCH REPORT
HAYNES & BOONE	OR THE DECLARATION
	(PCT Rule 44.1)
AUG 0 8 2000	(I C1 Rule 44.1)
RECEIVED	Date of Mailing (day/month/year) 3 1 JUL 2000
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below
14737.737.02	
International application No.	International filing date (day/month/year)
PCT/US00/40039	16 MARCH 2000
Applicant	
INPUT/OUTPUT, INC.	
1. X The applicant is hereby notified that the international	search report has been established and is transmitted herewith.
Filing of amendments and statement under Article The applicant is entitled, if he so wishes, to amend the	e 19: le claims of the international application (see Rule 46):
When? The time limit for filing such amendme	ents is normally 2 months from the date of transmittal of the
international search report, however, for r Where? Directly to the International Bureau of W	nore details, see the notes on the accompanying sheet.
34, chemin des Colombet 1211 Geneva 20, Switzerl	tes and
Facsimile No.: (41-22) 74 For more detailed instructions, see the notes on	ł.
For more detailed instructions, see the notes on	ine accompanying sheet.
2. The applicant is hereby notified that no international Article 17(2)(a) to that effect is transmitted herewith.	search report will be established and that the declaration under
3. With regard to the protest against payment of (an)	additional fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon h	as been transmitted to the International Bureau together with the the protest and the decision thereon to the designated Offices.
	the applicant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of the following	towing
	onal application will be published by the International Bureau. If
the applicant wishes to avoid or postpone publication.	a notice of withdrawal of the international application, or of the provided in rules 90 bis 1 and 90 bis 3, respectively, before the
Within 19 months from the priority date, a demand for in wishes to postpone the entry into the national phase ur	ternational preliminary examination must be filed if the applicant atil 30 months from the priority date (in some Offices even later).
Within 20 months from the priority date, the applicant must all designated Offices which have not been elected in the date or could not be elected because they are not bound	perform the prescribed acts for entry into the national phase before the demand or in a later election within 19 months from the priority and by Chapter II.
	$\sim \sim $
Name and mailing address of the ISA/US	Authorized officer
Commissioner of Patents and Trademarks Box PCT	HEZRON E. WILLIAMS
Washington, D.C. 20231 Facsimile No. (703) 305-3230	Telephone No. (703) 305-4900
Form PCT/ISA/220 (July 1998)*	(See notes on accompanying sheet)



PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 14737.737.02		Transmittal of International Search Report 0) as well as, where applicable, item 5 below.				
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/US00/40039	16 MARCH 2000	17 MARCH 1999				
Applicant INPUT/OUTPUT, INC.						
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.						
This international search report consists	s of a total of <u>4</u> sheets.					
	copy of each prior art document cited in this	report.				
language in which it was filed	ne international search was carried out on the ba , unless otherwise indicated under this item. s carried out on the basis of a translation of	sis of the international application in the				
b. With regard to any nucleotide was carried out on the basis of		international application, the international search				
contained in the internation	al application in written form.					
filed together with the inter	national application in computer readable for	m.				
	his Authority in written form.					
furnished subsequently to t	his Authority in computer readable form.					
international application as	equently furnished written sequence listing do filed has been furnished. nation recorded in computer readable form is id	es not go beyond the disclosure in the				
	d unsearchable (See Box I).	•				
3. Unity of invention is lack	sing (See Box II).					
4. With regard to the title,						
X the text is approved as sub	mitted by the applicant.					
the text has been established by this Authority to read as follows:						
5. With regard to the abstract,						
the text is approved as sub	omitted by the applicant.					
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.						
6. The figure of the drawings to be	published with the abstract is Figure No. 4	<u> </u>				
as suggested by the applic		None of the figures.				
X because the applicant failed to suggest a figure.						
because this figure better	characterizes the invention.					



International application No. PCT/US00/40039

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

An accelerometer (305) for measuring seismic data The accelerometer (305) includes an integrated vent hole for use during a vacuum sealing process and a balanced metal pattern for reducing cap wafer bowing. The accelerometer (305) also includes a top cap press frame recess (405) and a bottom cap press frame recess (420) for isolating bonding pressures to specified regions of the accelerometer (305). The accelerometer (305) is vacuum-sealed and includes a balanced metal pattern (730) to prevent degradation of the performance of the accelerometer (305). A dicing process is performed on the accelerometer (305) to isolate the electrical leads of the accelerometer (305). The accelerometer (305) further inlcudes overshock protection bumpers (720) and patterned metal electrodes to reduce stiction during the operation of the accelerometer (305).



	IFICATION OF SUBJECT MATTER			
• •	01P 15/13, 15/08 0/514.32, 514.24, 514.38			
According to I	International Patent Classification (IPC) or to both na	tional classification and IPC		
	S SEARCHED			
Minimum doci	umentation searched (classification system followed l	by classification symbols)		
U.S. : 73	/514.32, 514.24, 514.38, 514.16, 514.23, 514.36, 862	.61, 862.626; 361/280, 283.3		
Documentation None	n searched other than minimum documentation to the e	xtent that such documents are included	in the fields searched	
Electronic data	a base consulted during the international search (nam	e of data base and, where practicable,	search terms used)	
EAST search terms	s: accelerometer, stiction, electrode, capacitor, stictio	n reducing pattern		
c. pocui	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appr	opriate, of the relevant passages	Relevant to claim No.	
X	US 5,652,384 A (HENRION et al.) 29 J 3, line 24 to col. 4, line 30 and col. 5,	(uly 1997 (29.07.1997), col. line 15 to col. 6, line 54.	1, 2, 4, 6, 8-12	
	US 4,922,756 A (HENRION) 08 May 1990 (08.05.1990), col. 6, 3, 5 line 14 to col. 8, line 49.			
	US 5,901,939 A (CABUZ et al.) 11 May 1999 (11.05.1999), col. 4, 7 line 45 to col. 5, line 4.			
	US 5,446,616 A (WARREN) 29 August 1995 (29.08.1995), col. 1, line 60 to col. 2, line 33.			
TV Fronts	er documents are listed in the continuation of Box C.	See patent family annex.		
		T later document published after the in	ternational filing date or priority	
"A" docu	cial categories of cited documents: ument defining the general state of the art which is not considered be of particular relevance	date and not in conflict with the app the principle or theory underlying the	plication but cited to understand ne invention	
"E" carl	lier document published on or after the international filing date	"X" document of particular relevance; to considered novel or cannot be considered when the document is taken alone	he claimed invention cannot be lered to involve an inventive step	
cite	nument which may throw doubts on priority claim(s) or which is do establish the publication date of another citation or other cial reason (as specified)	"Y" document of particular relevance; to	e step, when the document is	
mea		combined with one or more other su being obvious to a person skilled in	ich documents, such combination i the art	
	nument published prior to the international filing date but later than priority date claimed	*& document member of the same pate		
Date of the	actual completion of the international search	Date of mailing of the international s	earch report	
22 JUNE	2000	3150	L/ 2)UU	
Commission Box PCT	nailing address of the ISA/US ner of Patents and Trademarks	Authorized officer HEZRON E. WILLIAMS	teng-len	
Washington, D.C. 20231 Faccimile No. (703) 305-3230		Telephone No. (703) 305-4900	7	



		101/0000,1005	
C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the releva	nt passages	Relevant to claim No
A	US 5,614,742 A (GESSNER et al.) 25 March 1997 (25. Abstract.	03.1997),	1-12
A '	US 5,877,421 A (BIEBL et al.) 02 March 1999 (02.03.1 Abstract.	1999),	1-12
Α .	US 6,035,714 A (YAZDI et al.) 14 March 2000 (14.03. Abstract.	2000),	1-12
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From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: TODD A. BYNUM MADAN, MOSSMAN & SRIRAM, PC 2603 AUGUSTA, SUITE 700 HOUSTON, TEXAS 77059

PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 71.1)

Date of Mailing (day/month/year)

19 DEC 2001

Applicant's or agent's file reference

10-1012 PCT

PCT/US00/40039

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)

Priority Date (day/month/year)

16 MARCH 2000

17 MARCH 1999

Applicant

INPUT/OUTPUT, INC.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the 1. international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication 2. to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of 3. the report (but not of any annexes) and will transmit such translation to those Offices.

REMINDER 4.

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Commissioner of Patents and Trademarks

Box PCT Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized office

HELEN C. I

Telephone No. (703) 305-4900

Form PCT/IPEA/416 (July 1992)*



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 10-1012 PCT	FOR FURTHER ACTION		cation of Transmittal of International Examination Report (Form PCT/IPEA/416)	
International application No.	International filing date (day/n	nonth/year)	Priority date (day/month/year)	
PCT/US00/40039	16 MARCH 2000		17 MARCH 1999	
International Patent Classification (IPC) IPC(7): G01P 15/13, 15/08 and US C		C		
Applicant INPUT/OUTPUT, INC.				
Examining Authority and is 2. This REPORT consists of a This report is also accompleen amended and are the	total of sheets. panied by ANNEXES, i.e., sheet basis for this report and/or she cion 607 of the Administrative	ects of the desc	ription, claims and/or drawings which have g rectifications made before this Authority.	
3. This report contains indication	ns relating to the following ite	ems:	· · · · · · · · · · · · · · · · · · ·	
I				
Date of submission of the demand	Date	of completion	of this report	
11 OCTOBER 2000		5 NOVEMBER	2001	
Name and mailing address of the IPEA/U		orized officer	$11 \frac{1}{2} \frac$	
Commissioner of Patents and Tradem Box PCT Washington, D.C. 20231		ELEN C. KW	of anex Teng-	
Facsimile No. (703) 305-3230	Telep	hone No. (7	03) 305-4900	

Form PCT/IPEA/409 (cover sheet) (July 1998)★



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/40039

. в	asis of the	report		
1. With	regard to the	e elements of the inter	national application:*	
[x]	the interna	ational application a	s originally filed	
닐	the descrip			
X	pages	⊒"		, as originally filed
	nages	NONE		, filed with the demand
	pages	NONE		tter of
	puges		, med with the let	
\mathbf{x}	the claims	:		
تت	pages	39-43		, as originally filed
	pages	NONE	, as amended (tog	gether with any statement) under Article 19
	pages	NONE		, filed with the demand
	pages	NONE	, filed with the letter of	
$\overline{}$	41 4			
X	the drawin			
	pages			, as originally filed
	pages	NONE	filed with the letter	, filed with the demand
	pages	NONE	, filed with the lette	er of
\mathbf{x}	the sequen	ce listing part of the	description:	
	pages			, as originally filed
	pages	NONE		, filed with the demand
	pages	NONE	filed with the letter	, filed with the demand
	the languag	ge of publication of	the international application (under	Rule 48.3(b)).
	the language or 55.3).	of the translation furn	ished for the purposes of international pre	eliminary examination (under Rules 55.2 and/
			or amino acid sequence disclosed in out on the basis of the sequence li	n the international application, the international
			application in printed form.	string.
			-	ble form
=	_		tional application in computer reada Authority in written form.	ole form.
=		-	Authority in computer readable for	rm.
H	The stateme	ent that the subseque	ently furnished written sequence listing	g does not go beyond the disclosure in the
	internationa	al application as filed	has been furnished.	
Ш	been furnish	ned.	n recorded in computer readable form	is identical to the writen sequence listing has
<u>X</u>	The amend	dments have resulte	d in the cancellation of:	
	X the c	description, pages_	none	
	X the c	claims, Nos.	none	
	X the c	lrawings, sheets /fi į	none	
$\cdot \square$				made, since they have been considered to go
* Panl			s indicated in the Supplemental Box (Rushished to the receiving Office in response	ue 10.2(c)).** e to an invitation under Article 14 are referred to _
in th	acement snee is report as 70.17).	s "originally filed" o	and are not annexed to this report si	nce they do not contain amendments (Rules 7
	•	nt sheet containing	such amendments must he referred to	under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/40039

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement statement Novelty (N) Claims none Claims 1-12 Claims none YES Inventive Step (IS) Claims 1-12 NO Claims 1-12 YES Industrial Applicability (IA) Claims none NO 2. citations and explanations (Rule 70.7) Claims 1, 2, 6 and 7-12 lack novelty under PCT Article 33(2) as being anticipated by U.S. Patent 5,652,384 (Henrion et al.). Henrion et al. discloses an accelerometer comprising, as illustrated in Figures 1-4, a mass including a housing having a cavity with a spring mass assembly positioned with the cavity with one or more metal electrode patterns coupled to the spring mass assembly; a top cap wafer and a bottom cap wafer wherein each of the wafer includes a capacitor electrode, a cap balance metal pattern, a cap frame recess, cap bumpers. (See, column 3, line 24 to column 4, line 30; column 5, line 15 to column 6, line Claims 3-5 lack novelty under PCT Article 33(2) as being anticipated by U.S. Patent 4,922,756 (Henrion). Henrion discloses an accelerometer comprising, as illustrated in Figures 5A-10, fabricating a mass including a housing having a cavity, a spring mass assembly; a top cap waver; a bottom cap wafer; stacking the mass, the top cap wafer and the bottom cap waver in a parallel manner; bonding the top cap wafer to the a side of the mass using a bonding process; boding the bottom cap wafer to another side of the mass suing the bonding process; and dicing cuts at predetermined locations on the accelerometer. (See, column 6, line 14 to column 8, line 49). Claims 1-12 have industrial applicability under PCT Article 33(4) because the subject matter can be made or used in industry. ----- NEW CITATIONS -----NONE



International application No. PCT/US00/40039

Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient) Sheet 10 Continuation of: Boxes I - VIII V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued): ----- NEW CITATIONS -----NONE

09/936640

P. .. ENT COOPERATION TREAT.

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

| '0

MADAN, Paul, S. Madan, Mossman & Sriram, P.C. Suite 700 2603 Augusta Houston, TX 77057 ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) 18 October 2001 (18.10.01)	to the best of the desired which is a second of the property which
Applicant's or agent's file reference 14737.737.02	IMPORTANT NOTIFICATION
International application No. PCT/US00/40039	International filing date (day/month/year) 16 March 2000 (16.03.00)
International publication date (day/month/year) 21 September 2000 (21.09.00)	Priority date (day/month/year) 17 March 1999 (17.03.99)
Applicant	

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the
 International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise
 indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority
 document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- 2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- 3. An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date
Priority application No.
Country or regional Office
Of PCT receiving Office
Of priority document

17 Marc 1999 (17.03.99) 60/125,076 US 21 Sept 2001 (21.09.01)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Tessadel PAMPLIEGA

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38



PAIENT COOPERATION TREAT .

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

SELVAKUMAR, Arjun et al

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)

04 October 2001 (04.10.01)

International application No.

PCT/US00/40039

International filing date (day/month/year)

16 March 2000 (16.03.00)

Applicant

ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Applicant's or agent's file reference

14737.737.02

Priority date (day/month/year)

17 March 1999 (17.03.99)

Applicant

1.	The designated Office is h	ereby notified of its election made:
	X in the demand filed	with the International Preliminary Examining Authority on:
	``.	11 October 2000 (11.10.00)
	in a notice effecting	later election filed with the International Bureau on:
2.	The election X was	
	was	not
	made before the expiration Rule 32.2(b).	n of 19 months from the priority date or, where Rule 32 applies, within the time limit under
	•	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland **Authorized officer**

Juan CRUZ

Telephone No.: (41-22) 338.83.38

Form PCT/IB/331 (July 1992)

Facsimile No.: (41-22) 740.14.35

US0040039

		·				
IPC(7) :G0	IFICATION OF SUBJECT MATTER 01P 15/13, 15/08 /514.32, 514.24, 514.38					
According to In	According to International Patent Classification (IPC) or to both national classification and IPC					
	SEARCHED					
Minimum docu	mentation searched (classification system follower	d by classification symbols)				
U.S. : 73/:	514.32, 514.24, 514.38, 514.16, 514.23, 514.36, 8	62.61, 862.626; 361/280, 283.3				
None None	searched other than minimum documentation to the	e extent that such documents are included	in the fields searched			
EAST	base consulted during the international search (na accelerometer, stiction, electrode, capacitor, stict	•	, search terms used)			
		ion reducing pattern				
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.			
	JS 5,652,384 A (HENRION et al.) 29, line 24 to col. 4, line 30 and col. 5		1, 2, 4, 6, 8-12			
	JS 4,922,756 A (HENRION) 08 May ne 14 to col. 8, line 49.	3, 5				
•	JS 5,901,939 A (CABUZ et al.) 11 Maine 45 to col. 5, line 4.	7				
	JS 5,446,616 A (WARREN) 29 Augustine 60 to col. 2, line 33.	st 1995 (29.08.1995), col. 1,	1-12			
X Further d	documents are listed in the continuation of Box C.	See patent family annex.				
•	categories of cited documents:	"T" later document published after the inte date and not in conflict with the appl				
	ent defining the general state of the art which is not considered f particular relevance	the principle or theory underlying the				
"L" docume	document published on or after the international filing date ent which may throw doubts on priority claim(s) or which is	"X" document of particular relevance; the considered novel or cannot be conside when the document is taken alone				
	o establish the publication date of another citation or other reason (as specified)	"Y" document of particular relevance; the considered to involve an inventive				
"O" docume means	ent referring to an oral disclosure, use, exhibition or other	combined with one or more other such being obvious to a person skilled in t	documents, such combination			
	ent published prior to the international filing date but later than ority date claimed	"&" document member of the same patent	family			
Date of the act	ual completion of the international search	Date of mailing of the international sea	rch report			
22 JUNE 200	00	31 JUL 2	Ø6 , 0			
Name and mail Commissioner Box PCT Washington, D	ling address of the ISA/US of Patents and Trademarks	Authorized officer HEZRON E. WILIJAMS	ing-lan			
Facsimile No.	(703) 305-3230	Telephone No. (703) 305-4900	D			

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C (Continua	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	US 5,614,742 A (GESSNER et al.) 25 March 1997 (25.03.1997), Abstract.	1-12
A	US 5,877,421 A (BIEBL et al.) 02 March 1999 (02.03.1999), Abstract.	1-12
A	US 6,035,714 A (YAZDI et al.) 14 March 2000 (14.03.2000), Abstract.	1-12
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Creation date: 01-09-2004

Indexing Officer: KHALL - KIM HALL

Team: OIPEBackFileIndexing

Dossier: 09936640

Legal Date: 11-12-2001

No.	Doccode	Number of pages
1	M905	2

Total number of page:	s: 2	
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Remarks:

Order of re-scan issued on